Release notes for ENDF/B Development e-004_Be_000 evaluation

October 13, 2016

- `fudge-4.0` Warnings:

    1. Mislabled emitted particle
       Reading ENDF file: ../e-004_Be_000.endf (Error # 0): ZAP messed up

       `WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0`

    2. FIXME: Generic fudge unimplemented message
       reaction label 1: e- + Be + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

       `WARNING: Checking not yet implemented for energyLoss type data`

    3. FIXME: Generic fudge unimplemented message
       reaction label 2: e- + Be [excitation] / Product: e- (Error # 0): Generic unimp (c)

       `WARNING: Checking not yet implemented for energyLoss type data`

- `fudge-4.0` Errors:

    1. Calculated and tabulated thresholds don't agree
       reaction label 0: e- + Be [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

       `WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!`

    2. Calculated and tabulated thresholds don't agree
       reaction label 1: e- + Be + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

       `WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!`

    3. Calculated and tabulated thresholds don't agree
       reaction label 2: e- + Be [excitation] / Cross section: (Error # 0): Threshold mismatch

       `WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!`

    4. Calculated and tabulated thresholds don't agree
       reaction label 3: e- + e- + Be1s1/2 / Cross section: (Error # 0): Threshold mismatch

       `WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 118.36 eV!`

    5. Calculated and tabulated thresholds don't agree
       reaction label 4: e- + e- + Be2s1/2 / Cross section: (Error # 0): Threshold mismatch

       `WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.18 eV!`

- `xsectplotter` Warnings:

    1. Mislabled emitted particle
       Error: ZAP messed up

1

stderr while processing crossSection

        WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
... [2 more lines]